



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/931,375
Source: OIPE
Date Processed by STIC: 08/23/2001

RECEIVED
FEB 14 2002
TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
<http://www.uspto.gov/web/offices/pac/checker>



Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/931,375

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
 Wrapped Aminos was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will
 prevent "wrapping."

- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

- 3 Misaligned Amino The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers;
 Numbering use space characters, instead.

- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please
 ensure your subsequent submission is saved in ASCII text.

- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules,
 each n or Xaa can only represent a single residue. Please present the maximum number of each
 residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 PatentIn 2.0 A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
 "bug" sequences(s) . Normally, PatentIn would automatically generate this section from the
 previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to
 the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for
 Artificial or Unknown sequences.

- 7 Skipped Sequences Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (OLD RULES) (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

- 8 Skipped Sequences Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 (NEW RULES) <210> sequence id number
 <400> sequence id number
 000

- 9 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
 (NEW RULES) Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

- 10 Invalid <213> Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or
 Response scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or
 is Artificial Sequence

- 11 ✓ Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or
 "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

- 12 PatentIn 2.0 Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
 "bug" resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
 listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

AMC - Biotechnology Systems Branch - 06/04/2001

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

OIPE



RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/931,375

DATE: 08/23/2001

TIME: 17:07:12

Input Set : A:\ES.txt

Output Set: N:\CRF3\08162001\I931375.raw

3 <110> APPLICANT: WARMAN, Matthew L.
 4 GONG, Yaoqin
 5 OLSEN, Bjorn R.
 6 RAWADI, Georges
 7 ROMAN-ROMAN, Sergio
 8
 9 <120> TITLE OF INVENTION: REGULATOR GENE AND SYSTEM USEFUL FOR THE DIAGNOSIS AND
 THERAPY OF

Does Not Comply
 Corrected Diskette Needed

See page 6 of 8A

10 OSTEOPOROSIS
 12 <130> FILE REFERENCE: 38464-0004
 14 <140> CURRENT APPLICATION NUMBER: US/09/931,375
 14 <141> CURRENT FILING DATE: 2001-08-17
 14 <150> PRIOR APPLICATION NUMBER: US 60/304,851
 15 <151> PRIOR FILING DATE: 2001-07-13
 17 <150> PRIOR APPLICATION NUMBER: US 60/234,337
 18 <151> PRIOR FILING DATE: 2000-09-22
 20 <150> PRIOR APPLICATION NUMBER: US 60/226,119
 21 <151> PRIOR FILING DATE: 2000-08-18
 23 <160> NUMBER OF SEQ ID NOS: 89
 25 <170> SOFTWARE: PatentIn version 3.0
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 5063
 29 <212> TYPE: DNA
 30 <213> ORGANISM: Homo sapiens
 32 <400> SEQUENCE: 1

```

33 gccatggagc ccgagtgagc gcggcgcggg cccgtccggc cgccggacaa catggaggca      60
35 gcgcgcgccg ggccgcccgtg gccgctgctg ctgctgctgc tgctgctgct ggcgctgtgc      120
37 ggctgcccgg cccccgccgc ggctctcgcc ctcctgctat ttgccaaccg ccggggacgta      180
39 cggttggtgg acgcccggcg agtcaagctg gagtccacca tcgtggtcag cggcctggag      240
41 gatgcggccg cagtggactt ccagttttcc aagggagccg tgtactggac agacgtgagc      300
43 gaggaggcca tcaagcagac ctacctgaac cagacggggg ccgccgtgca gaacgtggtc      360
45 atctccggcc tggctctctc cgacggctc gctcgact gggtgggcaa gaagctgtac      420
47 tggacggact cagagaccaa ccgcatcgag gtggccaacc tcaatggcac atcccgaag      480
49 gtgctcttct ggcaggacct tgaccagcct agggccatcg ccttggaccc cgctcacggg      540
51 tacatgtact ggacagactg gggtagacg ccccgattg agcgggcagg gatggatggc      600
53 agcacccgga agatcattgt ggactcggac atttactggc ccaatggact gaccatcgac      660
55 ctggaggagc agaagctcta ctgggctgac gccaaagctca gcttcatcca ccgtgccaac      720
57 ctggacggct cgttccggca gaaggtggtg gagggcagcc tgacgcaccc cttcgccctg      780
59 acgtctccg .gggacactct gtactggaca gactggcaga cccgtcccat ccatgcctgc      840
61 aacaagcgca ctgggggggaa gaggaaggag atcctgagtg ccctctactc acctatggac      900
63 atccaggtgc tgagccagga gcggcagcct ttcttcaca ctcgctgtga ggaggacaat      960
65 ggcggctgct ccacactgtg cctgctgtcc ccaagcgagc ctttctacac atgcgcctgc     1020
67 ccacgggtg tgcagctgca ggacaacggc aggacgtgta aggcaggagc cgaggagggtg     1080
69 ctgctgctgg cccggcgagc ggacctacgg aggatctcgc tggacacgcc ggacttcacc     1140
71 gacatcgtgc tgcagggtgga cgacatccgg cagccattg ccatcgacta cgaccgccta     1200
73 gagggtatg tctactggac agatgacgag gtgcgggcca tccgcagggc gtacctggac     1260
75 ggggtctggg cgcagacgct ggtcaacacc gagatcaacg accccgatgg catcgcggtc     1320
77 gactgggtg cccgaaacct ctactggacc gacacgggca cggaccgcat cgagggtgacg     1380
79 cgctcaacg gcacctcccg caagatcctg gtgtcggagg acctggacga gccccgagcc     1440

```

RAW SEQUENCE LISTING

DATE: 08/23/2001

PATENT APPLICATION: US/09/931,375

TIME: 17:07:12

Input Set : A:\ES.txt

Output Set: N:\CRF3\08162001\I931375.raw

81	atcgcaactgc	accccgatgat	gggcctcatg	tactggacag	actggggaga	gaaccctaaa	1500
83	atcgagtgtg	ccaacttggg	tgggcaggag	cggcgtgtgc	tgggtcaatgc	ctccctcggg	1560
85	tggcccaacg	gcctggccct	ggacctgcag	gaggggaagc	tctactgggg	agacgccaaag	1620
87	acagacaaga	tcgaggtgat	caatgttgat	gggacgaaga	ggcggaccct	cctggaggac	1680
89	aagctcccg	acattttcgg	gttcacgctg	ctgggggact	tcatctactg	gactgactgg	1740
91	cagcgccgca	gcacgcagcg	ggtgcacaag	gtcaaggcca	gccgggacgt	catcattgac	1800
93	cagctgccc	acctgatggg	gctcaaagct	gtgaatgtgg	ccaaggtcgt	cggaaccaac	1860
95	ccgtgtgcgg	acaggaacgg	gggtgacgc	cacctgtgct	tcttcacacc	ccacgcaacc	1920
97	cgggtgtggc	gccccatcgg	cctggagctg	ctgagtgcac	tgaagacctg	catcgtgcct	1980
99	gaggccttct	tgtcttcac	cagcagagcc	gccatccaca	ggatctccct	cgagaccaat	2040
101	aacaacgacg	tggccatccc	gctcacgggc	gtcaaggagg	cctcagccct	ggactttgat	2100
103	gtgtccaaca	accacatcta	ctggacagag	gtcagcctga	agaccatcag	ccgcgccttc	2160
105	atgaacggga	gctcggtgga	gcacgtggtg	gagtttgccc	ttgactaccc	cgagggcagt	2220
107	gccgttgact	ggatgggcaa	gaacctctac	tgggcccaga	ctgggaccaa	cagaatcgaa	2280
109	gtggcgccgc	tggacgggca	gttccggcaa	gtcctcgtgt	ggagggactt	ggacaacccg	2340
111	aggtcgctgg	ccctggatcc	caccaagggc	tacatctact	ggaccgagtg	gggcggcaag	2400
113	ccgaggatcg	tgcgggcctt	catggacggg	accaactgca	tgacgctggt	ggacaagggtg	2460
115	ggccggggcca	acgacctcac	cattgactac	gctgaccagc	gcctctactg	gaccgacctg	2520
117	gacaccaaca	tgatcgagtc	gtccaacatg	ctgggtcagg	agcgggtcgt	gattgccgac	2580
119	gatctcccg	acccgttcgg	tctgacgcag	tacagcgatt	atatctactg	gacagactgg	2640
121	aatctgcaca	gcattgagcg	ggccgacaag	actagcgccc	ggaaccgcac	cctcatccag	2700
123	ggccacctgg	acttcgtgat	ggacatcctg	gtgttccact	cctcccgcca	ggatggcctc	2760
125	aatgactgta	tgcaacaaca	cgggcagtgt	gggcagctgt	gccttgccat	ccccggcggc	2820
127	caccgctgcg	gctgcgcctc	acactacacc	ctggacccca	gcagccgcaa	ctgcagcccg	2880
129	cccaccacct	tcttgctgtt	cagccagaaa	tctgccatca	gtcggatgat	cccggacgac	2940
131	cagcacagcc	cggatctcat	cctgcccctg	catggactga	ggaacgtcaa	agccatcgac	3000
133	tatgaccac	tggacaagtt	catctactgg	gtggatgggc	gccagaacat	caagcgagcc	3060
135	aaggacgacg	ggacccagcc	ctttgttttg	acctctctga	gccaaaggcca	aaaccagac	3120
137	aggcagcccc	acgacctcag	catcgacatc	tacagccgga	cactgttctg	gacgtgcgag	3180
139	gccaccaata	ccatcaacgt	ccacaggctg	agcggggaag	ccatgggggt	ggtgctgcgt	3240
141	ggggaccgcg	acaagcccag	ggccatcgtc	gtcaacgcgg	agcgagggtg	cctgtacttc	3300
143	accaacatgc	aggaccgggc	agccaagatc	gaacgcgcag	ccctggacgg	caccgagcgc	3360
145	gaggtcctct	tcaccaccgg	cctcatccgc	cctgtggccc	tgggtggtgga	caacacactg	3420
147	ggcaagctgt	tctgggtgga	cgcggacctg	aagcgcattg	agagctgtga	cctgtcaggg	3480
149	gccaaccgcc	tgaccctgga	ggacgccaac	atcgtgcagc	ctctgggcct	gaccatcctt	3540
151	ggcaagcatc	tctactggat	cgaccgccag	cagcagatga	tcgagcgtgt	ggagaagacc	3600
153	accggggaca	agcggactcg	catccagggc	cgtgtcgcct	acctcactgg	catccatgca	3660
155	gtggagggaag	tcagcctgga	ggagttctca	gcccacccat	gtgcccgtga	caatggtggc	3720
157	tgtctccaca	tctgtattgc	caagggtgat	gggacaccac	ggtgctcatg	cccagtcac	3780
159	ctcgtgctcc	tgcaaacct	gctgacctgt	ggagagccgc	ccacctgctc	cccggaccag	3840
161	tttgcatgtg	ccacagggga	gatcgactgt	atccccgggg	cctggcgctg	tgacggcttt	3900
163	cccagtgctg	atgaccagag	cgacgaggag	ggctgccccg	tgtgctccgc	cgcccagttc	3960
165	ccctgcgcgc	gggttcagt	tgtggacctg	cgctgcgct	gcgacggcga	ggcagactgt	4020
167	caggagcgct	cagacgagcc	ggactgtgac	gccatctgcc	tgcccaacca	gttccgggtg	4080
169	gcgagcggcc	agtgtgtcct	catcaaacag	cagtgcgact	ccttccccga	ctgtatcgac	4140
171	ggctccgacg	agctcatgtg	tgaaatcacc	aagccgccct	cagacgacag	cccggcccac	4200
173	agcagtgcga	tcgggcccgt	cattggcatc	atcctctctc	tcttcgtcat	gggtggtgtc	4260
175	tattttgtgt	gccagcgctg	ggtgtgccag	cgctatgcgg	gggccaacgg	gcccttccc	4320
177	cacgagtatg	tcagcgggac	cccgcacgtg	ccctcaatt	tcatagcccc	gggcgggtcc	4380

RAW SEQUENCE LISTING

DATE: 08/23/2001

PATENT APPLICATION: US/09/931,375

TIME: 17:07:12

Input Set : A:\ES.txt

Output Set: N:\CRF3\08162001\I931375.raw

```

179 cagcatggcc ccttcacagg catcgcatgc ggaaagtcca tgatgagctc cgtgagcctg 4440
181 atggggggcc ggggcggggt gcccctgtac gaccggaacc acgtcacagg ggcctcgtcc 4500
183 agcagctcgt ccagcacgaa ggccacgctg taccgcccga tcctgaaccc gccgccctcc 4560
185 ccggccacgg acccctccct gtacaacatg gacatgttct actcttcaaa cattccggcc 4620
187 actgcgagac cgtacaggcc ctacatcatt cgaggaatgg cgcccccgac gacgccctgc 4680
189 agcaccgacg tgtgtgacag cgactacagc gccagccgct ggaaggccag caagtactac 4740
191 ctggatttga actcggactc agacccttat ccacccccac ccacgcccga cagccagtac 4800
193 ctgtcggcgg aggacagctg cccgccctcg cccgccaccg agaggagcta cttccatctc 4860
195 ttcccgcccc ctccgtcccc ctgcacggac tcactctgac ctcgcccggg ccactctggc 4920
197 ttctctgtgc ccctgtaaat agttttaaat atgaacaaag aaaaaaatat attttatgat 4980
199 ttaaaaaata aatataattg ggattttaaa aacatgagaa atgtgaactg tgatggggtg 5040
201 ggcagggctg ggagaacttt gta 5063
204 <210> SEQ ID NO: 2
205 <211> LENGTH: 1615
206 <212> TYPE: PRT
207 <213> ORGANISM: Homo sapiens
209 <400> SEQUENCE: 2
211 Met Glu Ala Ala Pro Pro Gly Pro Pro Trp Pro Leu Leu Leu Leu Leu
212 1 5 10 15
214 Leu Leu Leu Leu Ala Leu Cys Gly Cys Pro Ala Pro Ala Ala Ala Ser
215 20 25 30
217 Pro Leu Leu Leu Phe Ala Asn Arg Arg Asp Val Arg Leu Val Asp Ala
218 35 40 45
220 Gly Gly Val Lys Leu Glu Ser Thr Ile Val Val Ser Gly Leu Glu Asp
221 50 55 60
223 Ala Ala Ala Val Asp Phe Gln Phe Ser Lys Gly Ala Val Tyr Trp Thr
224 65 70 75 80
226 Asp Val Ser Glu Glu Ala Ile Lys Gln Thr Tyr Leu Asn Gln Thr Gly
227 85 90 95
229 Ala Ala Val Gln Asn Val Val Ile Ser Gly Leu Val Ser Pro Asp Gly
230 100 105 110
232 Leu Ala Cys Asp Trp Val Gly Lys Lys Leu Tyr Trp Thr Asp Ser Glu
233 115 120 125
235 Thr Asn Arg Ile Glu Val Ala Asn Leu Asn Gly Thr Ser Arg Lys Val
236 130 135 140
238 Leu Phe Trp Gln Asp Leu Asp Gln Pro Arg Ala Ile Ala Leu Asp Pro
239 145 150 155 160
241 Ala His Gly Tyr Met Tyr Trp Thr Asp Trp Gly Glu Thr Pro Arg Ile
242 165 170 175
244 Glu Arg Ala Gly Met Asp Gly Ser Thr Arg Lys Ile Ile Val Asp Ser
245 180 185 190
247 Asp Ile Tyr Trp Pro Asn Gly Leu Thr Ile Asp Leu Glu Glu Gln Lys
248 195 200 205
250 Leu Tyr Trp Ala Asp Ala Lys Leu Ser Phe Ile His Arg Ala Asn Leu
251 210 215 220
253 Asp Gly Ser Phe Arg Gln Lys Val Val Glu Gly Ser Leu Thr His Pro
254 225 230 235 240
256 Phe Ala Leu Thr Leu Ser Gly Asp Thr Leu Tyr Trp Thr Asp Trp Gln
257 245 250 255

```

RAW SEQUENCE LISTING

DATE: 08/23/2001

PATENT APPLICATION: US/09/931,375

TIME: 17:07:12

Input Set : A:\ES.txt

Output Set: N:\CRF3\08162001\I931375.raw

```

259 Thr Arg Ser Ile His Ala Cys Asn Lys Arg Thr Gly Gly Lys Arg Lys
260          260          265          270
262 Glu Ile Leu Ser Ala Leu Tyr Ser Pro Met Asp Ile Gln Val Leu Ser
263          275          280          285
265 Gln Glu Arg Gln Pro Phe Phe His Thr Arg Cys Glu Glu Asp Asn Gly
266          290          295          300
268 Gly Cys Ser His Leu Cys Leu Leu Ser Pro Ser Glu Pro Phe Tyr Thr
269 305          310          315          320
271 Cys Ala Cys Pro Thr Gly Val Gln Leu Gln Asp Asn Gly Arg Thr Cys
272          325          330          335
274 Lys Ala Gly Ala Glu Glu Val Leu Leu Ala Arg Arg Thr Asp Leu
275          340          345          350
277 Arg Arg Ile Ser Leu Asp Thr Pro Asp Phe Thr Asp Ile Val Leu Gln
278          355          360          365
280 Val Asp Asp Ile Arg His Ala Ile Ala Ile Asp Tyr Asp Pro Leu Glu
281          370          375          380
283 Gly Tyr Val Tyr Trp Thr Asp Asp Glu Val Arg Ala Ile Arg Arg Ala
284 385          390          395          400
286 Tyr Leu Asp Gly Ser Gly Ala Gln Thr Leu Val Asn Thr Glu Ile Asn
287          405          410          415
289 Asp Pro Asp Gly Ile Ala Val Asp Trp Val Ala Arg Asn Leu Tyr Trp
290          420          425          430
292 Thr Asp Thr Gly Thr Asp Arg Ile Glu Val Thr Arg Leu Asn Gly Thr
293          435          440          445
295 Ser Arg Lys Ile Leu Val Ser Glu Asp Leu Asp Glu Pro Arg Ala Ile
296          450          455          460
298 Ala Leu His Pro Val Met Gly Leu Met Tyr Trp Thr Asp Trp Gly Glu
299 465          470          475          480
301 Asn Pro Lys Ile Glu Cys Ala Asn Leu Asp Gly Gln Glu Arg Arg Val
302          485          490          495
304 Leu Val Asn Ala Ser Leu Gly Trp Pro Asn Gly Leu Ala Leu Asp Leu
305          500          505          510
307 Gln Glu Gly Lys Leu Tyr Trp Gly Asp Ala Lys Thr Asp Lys Ile Glu
308          515          520          525
310 Val Ile Asn Val Asp Gly Thr Lys Arg Arg Thr Leu Leu Glu Asp Lys
311          530          535          540
313 Leu Pro His Ile Phe Gly Phe Thr Leu Leu Gly Asp Phe Ile Tyr Trp
314 545          550          555          560
316 Thr Asp Trp Gln Arg Arg Ser Ile Glu Arg Val His Lys Val Lys Ala
317          565          570          575
319 Ser Arg Asp Val Ile Ile Asp Gln Leu Pro Asp Leu Met Gly Leu Lys
320          580          585          590
322 Ala Val Asn Val Ala Lys Val Val Gly Thr Asn Pro Cys Ala Asp Arg
323          595          600          605
325 Asn Gly Gly Cys Ser His Leu Cys Phe Phe Thr Pro His Ala Thr Arg
326          610          615          620
328 Cys Gly Cys Pro Ile Gly Leu Glu Leu Leu Ser Asp Met Lys Thr Cys
329 625          630          635          640
331 Ile Val Pro Glu Ala Phe Leu Val Phe Thr Ser Arg Ala Ala Ile His

```

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/931,375

DATE: 08/23/2001
 TIME: 17:07:12

Input Set : A:\ES.txt

Output Set: N:\CRF3\08162001\I931375.raw

```

332          645          650          655
334 Arg Ile Ser Leu Glu Thr Asn Asn Asn Asp Val Ala Ile Pro Leu Thr
335          660          665          670
337 Gly Val Lys Glu Ala Ser Ala Leu Asp Phe Asp Val Ser Asn Asn His
338          675          680          685
340 Ile Tyr Trp Thr Asp Val Ser Leu Lys Thr Ile Ser Arg Ala Phe Met
341          690          695          700
343 Asn Gly Ser Ser Val Glu His Val Val Glu Phe Gly Leu Asp Tyr Pro
344 705          710          715          720
346 Glu Gly Met Ala Val Asp Trp Met Gly Lys Asn Leu Tyr Trp Ala Asp
347          725          730          735
349 Thr Gly Thr Asn Arg Ile Glu Val Ala Arg Leu Asp Gly Gln Phe Arg
350          740          745          750
352 Gln Val Leu Val Trp Arg Asp Leu Asp Asn Pro Arg Ser Leu Ala Leu
353          755          760          765
355 Asp Pro Thr Lys Gly Tyr Ile Tyr Trp Thr Glu Trp Gly Gly Lys Pro
356          770          775          780
358 Arg Ile Val Arg Ala Phe Met Asp Gly Thr Asn Cys Met Thr Leu Val
359 785          790          795          800
361 Asp Lys Val Gly Arg Ala Asn Asp Leu Thr Ile Asp Tyr Ala Asp Gln
362          805          810          815
364 Arg Leu Tyr Trp Thr Asp Leu Asp Thr Asn Met Ile Glu Ser Ser Asn
365          820          825          830
367 Met Leu Gly Gln Glu Arg Val Val Ile Ala Asp Asp Leu Pro His Pro
368          835          840          845
370 Phe Gly Leu Thr Gln Tyr Ser Asp Tyr Ile Tyr Trp Thr Asp Trp Asn
371          850          855          860
373 Leu His Ser Ile Glu Arg Ala Asp Lys Thr Ser Gly Arg Asn Arg Thr
374 865          870          875          880
376 Leu Ile Gln Gly His Leu Asp Phe Val Met Asp Ile Leu Val Phe His
377          885          890          895
379 Ser Ser Arg Gln Asp Gly Leu Asn Asp Cys Met His Asn Asn Gly Gln
380          900          905          910
382 Cys Gly Gln Leu Cys Leu Ala Ile Pro Gly Gly His Arg Cys Gly Cys
383          915          920          925
385 Ala Ser His Tyr Thr Leu Asp Pro Ser Ser Arg Asn Cys Ser Pro Pro
386          930          935          940
388 Thr Thr Phe Leu Leu Phe Ser Gln Lys Ser Ala Ile Ser Arg Met Ile
389 945          950          955          960
391 Pro Asp Asp Gln His Ser Pro Asp Leu Ile Leu Pro Leu His Gly Leu
392          965          970          975
394 Arg Asn Val Lys Ala Ile Asp Tyr Asp Pro Leu Asp Lys Phe Ile Tyr
395          980          985          990
397 Trp Val Asp Gly Arg Gln Asn Ile Lys Arg Ala Lys Asp Asp Gly Thr
398          995          1000          1005
400 Gln Pro Phe Val Leu Thr Ser Leu Ser Gln Gly Gln Asn Pro Asp
401          1010          1015          1020
403 Arg Gln Pro His Asp Leu Ser Ile Asp Ile Tyr Ser Arg Thr Leu
404          1025          1030          1035

```

Errored 09/931,375

210> 3
211> 20
212> DNA
213> Artificial Sequence

400> 3
gctgccct agacttagcc 20

210> 4
211> 18
212> DNA
213> Artificial Sequence

400> 4
caagtcgct tccgagac 18

210> 5
211> 20
212> DNA
213> Artificial Sequence

400> 5

(When the 213 response is
"Artificial Sequence" a
mandatory response is required
in field 223.

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/931,375

DATE: 08/23/2001

TIME: 17:07:13

Input Set : A:\ES.txt

Output Set: N:\CRF3\08162001\I931375.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:528 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:528 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:537 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:537 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:546 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:546 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:555 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:555 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:564 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:564 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:573 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:573 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:582 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:582 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:591 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:591 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:600 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:600 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:609 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:609 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:618 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:618 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:627 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:627 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:636 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:636 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:645 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:645 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:654 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:654 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:663 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:663 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:672 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:672 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:681 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:681 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:690 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:690 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:699 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:699 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:708 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:708 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:717 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:717 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:726 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:726 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/931,375

DATE: 08/23/2001

TIME: 17:07:13

Input Set : A:\ES.txt

Output Set: N:\CRF3\08162001\I931375.raw

L:735 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:735 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:744 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:744 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:787 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:32 ✓
L:862 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:40